

(PCT Article 36 and Rule 70)

Date of submission of the demand	Date of completion of this report
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## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2005/000613

## Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.
- ☐ This report is based on translations from the original language into the following language \_\_\_\_\_, which is the language of a translation furnished for the purposes of:
- ☐ international search (Rule 12.3 and 23.1(b))
- ☐ publication of the international application (Rule 12.4)
- ☐ international preliminary examination (Rule 55.2 and/or 55.3)
2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:
- ☐ the international application as originally filed/furnished
- ☒ the description:
- pages 4-14, 16 as originally filed/furnished
- pages\* 1, 2, 2/1, 3, 15, 15/1 received by this Authority on 20.02.2006
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- ☒ the claims:
- nos. 2, 13-15 as originally filed/furnished
- nos.\* 5, 16 as amended (together with any statement) under Article 19
- nos.\* 1 received by this Authority on 20.02.2006
- nos.\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- ☒ the drawings:
- sheets fig. 1-8 as originally filed/furnished
- sheets\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- sheets\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- ☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.
3. ☒ The amendments have resulted in the cancellation of:
- ☐ the description, pages \_\_\_\_\_
- ☒ the claims, nos. 3, 4, 6-12
- ☐ the drawings, sheets/figs \_\_\_\_\_
- ☐ the sequence listing (*specify*): \_\_\_\_\_
- ☐ any table(s) related to sequence listing (*specify*): \_\_\_\_\_
4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
- ☐ the description, pages \_\_\_\_\_
- ☐ the claims, nos. \_\_\_\_\_
- ☐ the drawings, sheets/figs \_\_\_\_\_
- ☐ the sequence listing (*specify*): \_\_\_\_\_
- ☐ any table(s) related to sequence listing (*specify*): \_\_\_\_\_

\* If item 4 applies, some or all of those sheets may be marked "superseded."

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Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
1.	Statement		
	Novelty (N)	Claims <u>1, 2, 5, 13-16</u>	YES
		Claims _____	NO
	Inventive step (IS)	Claims <u>13-15</u>	YES
		Claims <u>1, 2, 5, 16</u>	NO
	Industrial applicability (IA)	Claims <u>1, 2, 5, 13-16</u>	YES
		Claims _____	NO
2.	Citations and explanations (Rule 70.7)		
	<p>Document 1: JP 62-12045 A (Toshiba Corp.), 21 January 1987, page 2, lower right column, line 1 to page 3, lower right column, line 8 and fig. 1 to 3 (Family: none)</p> <p>Document 2: JP 7-14542 A (Tohoku Erebanu Kabushiki Kaisha), 17 January 1995, paragraphs [0007] to [0010] and fig. 1 to 4 (Family: none)</p> <p>Document 3: JP 2003-323847 A (Koito Mfg. Co., Ltd.), 14 November 2003, paragraphs [0026], [0027] and [0042] and fig. 3 and 6 &amp; US 2003/0232564 A1 &amp; DE 10319498 A1</p> <p>Document 1 cited in the international search report discloses a fluorescent lamp equipped with a thermionic cathode that comprises a double-helical coil filament, the surface of which has been covered with an emitter, wherein the leg parts of the aforementioned thermionic cathode are connected to lead wires, the coil part of the aforementioned thermionic cathode is oriented in the longitudinal direction along the tube axis of the glass tube, and a cylindrical shield member is provided so as to cover the periphery of the aforementioned coil part.</p>		

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Meanwhile, document 2 cited in the international search report discloses a discharge lamp equipped with a pair of discharge electrodes that are disposed on the interior of a hermetically sealed container, wherein the coil part of the filament is connected to contact plates or cylindrical members that are provided to the tips of the two lead wires. Furthermore, the two contact plates or the two cylindrical members are separated from one another in the discharge lamp disclosed in document 2.

Newly cited document 3 discloses a discharge lamp wherein the connection member is bent into the shape of the letter "L" or the like in order to increase the mechanical strength of said connection member.

The inventions set forth in claims 1, 2, 5 and 16 do not involve an inventive step in the light of documents 1 to 3.

The "contact plates" or the "cylindrical members" in the invention disclosed in document 2 correspond to the "first connection member" and the "second connection member" in the invention set forth in claim 1. In addition, the contact plates or the cylindrical members in the invention disclosed in document 2 also serve as "connection reinforcing members" for reinforcing the connections between the lead wires and the filament. Such being the case, it would not be especially difficult for a person skilled in the art to conceive of connecting the lead wires to the leg parts of the thermionic cathode in the fluorescent lamp disclosed in document 1 by means of a connection member, like in the discharge lamp disclosed in document 2. Furthermore, the issues associated with maintaining the machining strength of a connection member

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would be obvious to a person skilled in the art, and thus a person skilled in the art could configure so that the connection members have the form that is disclosed in document 3, as appropriate.

With regards to the connection reinforcing member, claim 1 sets forth a method for the production of a "connection reinforcing member, wherein the aforementioned first connection member and the aforementioned second connection member, which have been integrated by means of a linking member, are separated by cutting the aforementioned linking member." However, the two contact plates or the two cylindrical members are also separated from one another in the discharge lamp disclosed in document 2, and thus the aforementioned production method cannot be considered to constitute a significant difference between the first and second connection parts in the invention set forth in claim 1 and the contact plates or the cylindrical members in the invention disclosed in document 2.

The inventions set forth in claims 13 to 15 are not disclosed in any of the documents that are cited in the international search report or the newly cited documents, and would not have been obvious to a person skilled in the art.